



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 6142**  
Mitsuaki OSHIMA et al. : Docket No. 2000\_1388  
Serial No. 09/677,421 : Group Art Unit 2634  
Filed October 5, 2000 : Examiner Dac V. Ha  
COMMUNICATION SYSTEM : **Mail Stop: AMENDMENT**

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**AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO ACCEPT DEPOSITS OF PATENT  
FILES FOR THE U.S. PATENT DEPOSIT  
ACCOUNT NO. 20-0075

Sir:

In response to the Office Action of August 10, 2005, the period for response to which having been extended by three months to February 10, 2006, please amend the above-identified U.S. patent application as follows:

**IN THE CLAIMS:**

**Please cancel claims 24-35, and add new claims 36-47 as follows.**

**36. A signal transmission apparatus for transmitting a first data stream and a second data stream, comprising:**

**- a modulator operable to modulate the first data stream according to an m-level PSK modulation or an m-level QAM modulation, and modulate the second data stream according to an n-level PSK modulation or an n-level QAM modulation to produce modulated signals; and**

**- a transmitter operable to transmit the modulated signals,**

**wherein the first data stream includes information for demodulation representing the value of n of the second data stream.**